CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-02/561y/CEMENT/2017-18 Date: 05.02.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Sample ID	:	Cement
Sample Received on	:	03.02.2018
Period of Testing	:	03.02.2018 to 05.02.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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=> The results indicated above are based on the tests carried out on the samples received in the laboratory.

=> Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-02/561y/SAND-Gradation/2017-18 05.02.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	: **Technical Manager,** KRIDL, Bangalore.
* Name of Work	: Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	: BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 03.02.2018
Date of Testing	: 05.02.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.40	90-100	90-100	90-100	95-100
2.36	78.40	60-95	75-100	85-100	95-100
1.18	58.40	30-70	55-90	75-100	90-100
600 Micron	38.50	15-34	35-59	60-79	80-100
300 Micron	17.00	5-20	8-30	12-40	15-50
150 Micron	5.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-02/561y/AGG/GR/2017-18

05.02.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of Work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference		BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	03.02.2018
Date of Testing	:	05.02.2018

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.88	95-100	85-100
20	38.48	30-70	0-20
10	18.08	10-35	0-5
4.75	3.08	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.13/Steel/2017-18 08.02.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements works at dog kennel at Sy No.51 Mallasandra in Ward No.13 of Project Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/14/2017-18 Dated: 01.01.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	08.02.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	513	554	13.1	O.K	O.K

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